

JC03 Rec'd POPTO 03 MAY 2005 #4

PATENT ATTORNEY DOCKET NO.: 046124-5322

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ın re Applicat	ion of: A	kira OHBA et al.))
U.S. Applicat	ion No.:	10/508,793))) Group Art Unit: Unassigned
International A	Appln. Fi	iling Date: March 20, 2003)) Examiner: Unassigned
Date of Nation	nal Stage	Entry: September 21, 2004)))
For: X-RAY	IMAGE	MAGNIFYING DEVICE)
Alexandria, V	nd Trader ndow, M (A 22314 RESP R 35 U.S.	mark Office AIL STOP PCT 4 ONSE TO NOTIFICATION C. § 371 IN THE U.S. DESI eplies to the Notification of M	N OF MISSING REQUIREMENTS GNATED/ELECTED OFFICE (DO/EO/US) Missing Requirements (Form PCT/DO/EO/905)
	maile	d March 23, 2005.	
enclos		y of the Notification of Missin	ng Requirements (Form PTC/DO/EO/905) is
2.	Declar	ration Or Oath	
	\boxtimes	No declaration or oath was and Power of Attorney.	filed. Enclosed is the original Combined Declaration
			o the declaration is a copy of the specification and ich were filed in the PTO to obtain the filing date.
			ch was filed was determined to be defective. A new tion and Power of Attorney is attached.

3.	3.	English Translation of Non-English Language Papers
		Submitted herewith is a verified English translation of the non-English language application papers as originally filed. It is requested that this translation be used as the copy for examination purposes in the PTO.
		Also enclosed is the Verification of Translation Document
4.	Small	Entity Statement(s) Applicant(s) hereby assert small entity status.
5	Fee C	alculation

5. Fee Calculation

Basic National Stage Fee: \$300.00				
	Number Filed	Number Extra	at a Rate of	
Total Claims	3-20 =	0	\$50.00 each=	+\$
Independent Claims	1-3=	0	\$200.00 each=	+\$
Multiple dependent claim(s), if any		\$360.00	+\$
Missing Requirements Sur	charge Fee		\$130.00	\$130.00
Application Size Fee			······································	
\$250.00 for each additional 50 sheets that exceeds 100 Application Search Fee \$500.00			\$ \$	
Examination Fee \$200.00			1	\$ \$
			SUB-TOTAL	
Fee For Application Filed With A Non-English Specification (37 C.F.R. § 1.17(k) and § 1.52(d) \$130.00 +\$0.00			+\$0.00	
Fee For Processing and retention of application (37 C.F.R. § 1.21(l) and § 1.53(d) \$1		\$130.00	+\$	
TOTAL FILING FEE =			= \$130.00	

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4	Evtor	ninn	of Time
()	CXIC	ISIOH	OI LIME

The papply	-	tent application and	the provisions of 37 C.F.R. § 1.136(a)
	Applicants petition for an e §§ 1.17(a)-(d), for the total	·	fees for which are set out in 37 C.F.R. hecked below:
	Total Months Requested One month Two months Three months Four months Five months	Extension Fee \$120.00 \$450.00 \$1,020.00 \$1,590.00 \$2,160.00	Extension Fee [Small Entity] \$60.00 \$225.00 \$510.00 \$795.00 \$1,080.00
Exten	sion of time fee due with this	request:	\$
If an a	additional extension of time is	required, please con	sider this a Petition therefor.
\boxtimes		ovide for the possibi	required. However, this conditional lity that applicant has inadvertently stension of time.

7. Fee Payment

	The total fee du	e is: Completion Fees	\$ <u>130.00</u>
05/06/2005 MK	AYPAGH 00000067 500310	10508793 Assignment Fees Total Fee Due	\$ <u>40.00</u>
01 FC:1617	130.00 DA	i otal Fee Due	\$ <u>170.00</u>

- The Commissioner is hereby authorized to charge the total fee due to Deposit Account 50-0310.
- Except for issue fees payable under 37 C.F.R. §1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R §1.16 and §1.17 which may be required, or credit any overpayment to Deposit Account No. 50-0310.

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8.	Additio	onal papers enclosed.
	\boxtimes	Form PCT/IPEA/409 International
		Preliminary Examination Report
		Preliminary Amendment
		PCT/IB/338 English translation of the International
		preliminary Examination Report
	\boxtimes	Information Disclosure Statement
	\boxtimes	Form PTO-1449, 4 documents as listed
		Declaration of Biological Deposit
		Submission of "Sequence Listing", computer readable copy and/or amendment pertaining
		thereto for biotechnology invention containing nucleotide and/or amino acid sequence.

Respectfully submitted,

MORGAN, LEWIS & BOCKIUS LLP

Date: May 3, 2005 Customer No. 09629

MORGAN, LEWIS & BOCKIUS LLP

1111 Pennsylvania Avenue, N.W. Washington, D.C. 20004

Telephone: (202) 739-3000 Facsimile: (202) 739-3001



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERC United States Patent and Trademark Office.
Address: COMMISSIONER FOR PATENTS
P. Ook 1450
Alexandria, Virginia 22313-1450

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT		ATTY.	DOCKET NO.	
10/508,793	Akira Ohba		046124-5322		
		INTERNAT	TIONAL APPL	ICATION NO.	
	_	PC	CT/JP03/03	3452	
09629	, <i>,</i> _	LA. FILING	DATE	PRIORITY DATE	
MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE N₩	3/28/05 _{Attorney} <u>J6S</u>	03/20/20	003	03/22/2002	
WASHINGTON, DC 20004 Case 46 Due Date Action	129-322 5/23/05 Lisssig Req	. 371 FOR . *OC0(RMALITIE	TION NO. 3905 S LETTER 15536112*	

Date Mailed: 03/23/2005

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 09/21/2004
- English Translation of the IA filed on 09/21/2004
- Copy of the International Search Report filed on 09/21/2004
- Copy of IPE Report filed on 09/21/2004
- U.S. Basic National Fees filed on 09/21/2004
- Priority Documents filed on 09/21/2004

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371;

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- \$130 Surcharge for providing the oath or declaration later than 30 months from the priority date (37 CFR 1.492(e)) is required.

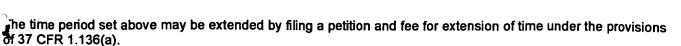
SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

\$130 Late oath or declaration Surcharge.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION. WHICHENERS IN FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

MAR 2 8 2005 MCRGAN, LEWIS & BOCKIUS LLP



Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice MUST be returned with the response.

JOHN L ANDERSON

Telephone: (703) 308-9140 EXT 211

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.	
10/508,793	PCT/JP03/03452	046124-5322	

FORM PCT/DO/EO/905 (371 Formalities Notice)

PATENT

ATTORNEY DOCKET NO.: 046124-5322

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Akira OHBA et al.)
Application No.: 10/508,793) Group Art Unit: Unassigned
Filed: September 21, 2004) Examiner: Unassigned
For: X-RAY IMAGE MAGNIFYING DEVICE)
Commissioner for Patents U.S. Patent and Trademark Office Alexandria, VA 22314	

SUBMISSION OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

A translation of an International Preliminary Examination Report ("IPER") issued in corresponding PCT/JP03/03452 is attached. Applicants respectfully request that the Examiner consider the IPER as it relates to the above-identified application.

Respectfully submitted,

MORGAN, LEWIS & BOCKIUS LLP

Dated: May 3, 2005 Customer No. 009629 MORGAN, LEWIS & BOCKIUS LLP 1111 Pennsylvania Avenue, N.W. Washington, D.C. 20004 (202) 739-3000

Robert J. Gaybrick, Reg. No. 27,890

Sir:

Translation

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FP03-0052-00	FOR FURTHER ACTION		tionofTransmittalofInternational Preliminary n Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/i	nonth/year)	Priority date (day/month/year)		
PCT/JP03/03452	20 March 2003 (20.	03.03)	22 March 2002 (22.03.02)		
International Patent Classification (IPC) or G21K 7/00, G01N 23/04	national classification and IPC				
Applicant	HAMAMATSU PHOTO	NICS K.K.			
This international preliminary exar and is transmitted to the applicant a		l by this Intern	national Preliminary Examining Authority		
2. This REPORT consists of a total or	f sheets, includi	ng this cover s	heet.		
amended and are the basis f	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a	total of sheets.	•			
3. This report contains indications rel	ating to the following items:				
I Basis of the report	I Basis of the report				
II Priority	TI Priority				
III Non-establishment	of opinion with regard to novelt	y, inventive st	ep and industrial applicability		
IV Lack of unity of in	vention				
Reasoned statemer		to novelty, in	ventive step or industrial applicability;		
. Contain de commente					
V1					
· · ·	the international application				
VIII Certain observation	ns on the international application	n			
Date of submission of the demand		f completion o	of this report		
20 March 2003 (20.0	03.03)	02 O	ectober 2003 (02.10.2003)		
Name and mailing address of the IPEA/JP	Autho	rized officer	,		
Facsimile No	Telent	one No			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP03/03452

	s of the r	
1. With	n regard t	to the elements of the international application:*
\boxtimes	the inte	ernational application as originally filed
	the des	scription:
	pages	, as originally filed
	pages	, filed with the demand
	pages	, filed with the letter of
	the cla	ins:
	pages	, as originally filed
	pages	, as amended (together with any statement under Article 19
	pages	, filed with the demand
	pages	, filed with the letter of
	the dra	wings:
	pages	
	pages	, as originally filed, filed with the demand
	pages	, filed with the letter of
	47	
ш		ence listing part of the description:
	pages	, as originally filed
	pages pages	, filed with the demand
		, filed with the letter of
the i	nternatio	to the language, all the elements marked above were available or furnished to this Authority in the language in which nal application was filed, unless otherwise indicated under this item. ats were available or furnished to this Authority in the following language which is:
	the lan	guage of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	the lan	guage of publication of the international application (under Rule 48.3(b)).
	the lar or 55.3	nguage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/3).
3. Wit	h regard iminary e	to any nucleotide and/or amino acid sequence disclosed in the international application, the international examination was carried out on the basis of the sequence listing:
Щ	contair	ned in the international application in written form.
	filed to	ogether with the international application in computer readable form.
	furnish	ned subsequently to this Authority in written form.
	furnish	ned subsequently to this Authority in computer readable form.
	The st	tatement that the subsequently furnished written sequence listing does not go beyond the disclosure in the ational application as filed has been furnished.
	The st been fi	atement that the information recorded in computer readable form is identical to the written sequence listing has urnished.
4.	The an	nendments have resulted in the cancellation of:
	닏	the description, pages
	H	the claims, Nos.
		the drawings, sheets/fig
5.	This rep	port has been established as if (some of) the amendments had not been made, since they have been considered to go the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
in th	acement s nis report 70.17).	sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to t as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16
	•	ent sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 03/03452

v. 	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

	Statement			
	Novelty (N)	Claims	1-3	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-3	NO
	Industrial applicability (IA)	Claims	1-3	YES
		Claims		NO

Citations and explanations

Claims 1-3

Document 1: JP 4-265900 A (Nikon Corp.), 22 September 1992, entire text, all drawings, (Family: none)

Document 2: JP 9-251100 A (Olympus Optical Co., Ltd.),
22 September 1997, entire text, all
drawings, (Family: none)

Document 3: JP 9-178900 A (Olympus Optical Co., Ltd.),
11 July 1997, entire text, all drawings,
(Family: none)

Document 4: JP 7-243993 A (Hamamatsu Photonics Kabushiki Kaisha), 19 September 1995, entire text, all drawings, (Family: none)

Document 1 discloses a feature wherein an imageforming type soft X-ray microscope device, which comprises
an elliptic rotary reflection mirror (9) that is
configured from a multi-layer film, a zone plate (14) for
collecting the X-rays from the object (13) and forming an
image of the object, and a two-dimensional X-ray imaging
element (15) for detecting the image of said object, is
provided with an optical microscope that reflects the
light from the illuminating light source (22) by means of

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 03/03452

a reflection mirror (24) with angled holes formed therein, which is positioned in the vicinity of the object lens (23). In addition, document 1 also indicates that a detector such as a CCD, which is sensitive to visible light as well as X-rays, can be used as the two-dimensional X-ray imaging element (15).

Document 1 does not indicate that the imaging magnification of the X-ray image is adjusted by moving at least one component from among the X-ray image detection means, the sample material and the illuminating optical system along the optical axis in this device; however, document 2 discloses a soft X-ray microscope wherein the imaging magnification is changed by moving the detector (10) along the optical axis in order to change the distance between the detector (10) and the zone plate-type objective lens (9), and document 3 discloses an X-ray observation device that is equipped with a structure for changing the distance between the sample material and the X-ray optical system.

Furthermore, the provision of a second X-ray reflection means in addition to the first X-ray reflection means, as disclosed in document 4, is merely a design matter that can be configured by a person skilled in the art as necessary.